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Subject: Draft toxicity test protocol for larval to spat life stages of Pacific oyster
Date: Tuesday, February 07, 2017 5:43:21 PM
Attachments: [1st Draft Larval to Juvenile Pacific Oyster Toxicity Test Protocol.docx](#)

Attached is a draft step by step protocol for the toxicity testing of larval oysters to see if Discovery Bay water causes failure of the larvae to settle onto a substrate. At the end is a draft table of test conditions and test acceptability criteria to evaluate the results. I have not been able to find any agency or organization that has a standard toxicity test protocol or method for this life stage of any bivalve species. So some of the test acceptability criteria are speculative at this time. The exposure conditions are pretty standard for Pacific oyster, and should work fine as written.

After scaling up the sample volumes for the larval oyster deformity standard protocols to account for the metabolism of the larger larvae to be used in this test, I think we can get away with much smaller volumes of water than the 5 gallons we were talking about last week. I'm thinking a 2 liter sample of water from each location should allow us to easily run eight replicates per test, with plenty of water left over for a retest (or more replicates per test).

I'm anxiously awaiting a call from ASTM with their designation number for this new method. ☺

Best regards,

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"Facts are stubborn things, but statistics are more pliable"

- Mark Twain